Joint Operational Effects Federation (JOEF)

NBC OAG Decision Brief

JOEF Capability

- Provide a program similar to NBC Planner that is more robust.
- Capability to portray operational effects, mission impacts and risk assessments on the forces.
- Enhance the Commanders ability to assess impacts and risks of CBRN and TIM hazards.

JOEF Concept of Employment

- JOEF COE for review and comments in Dec 04.

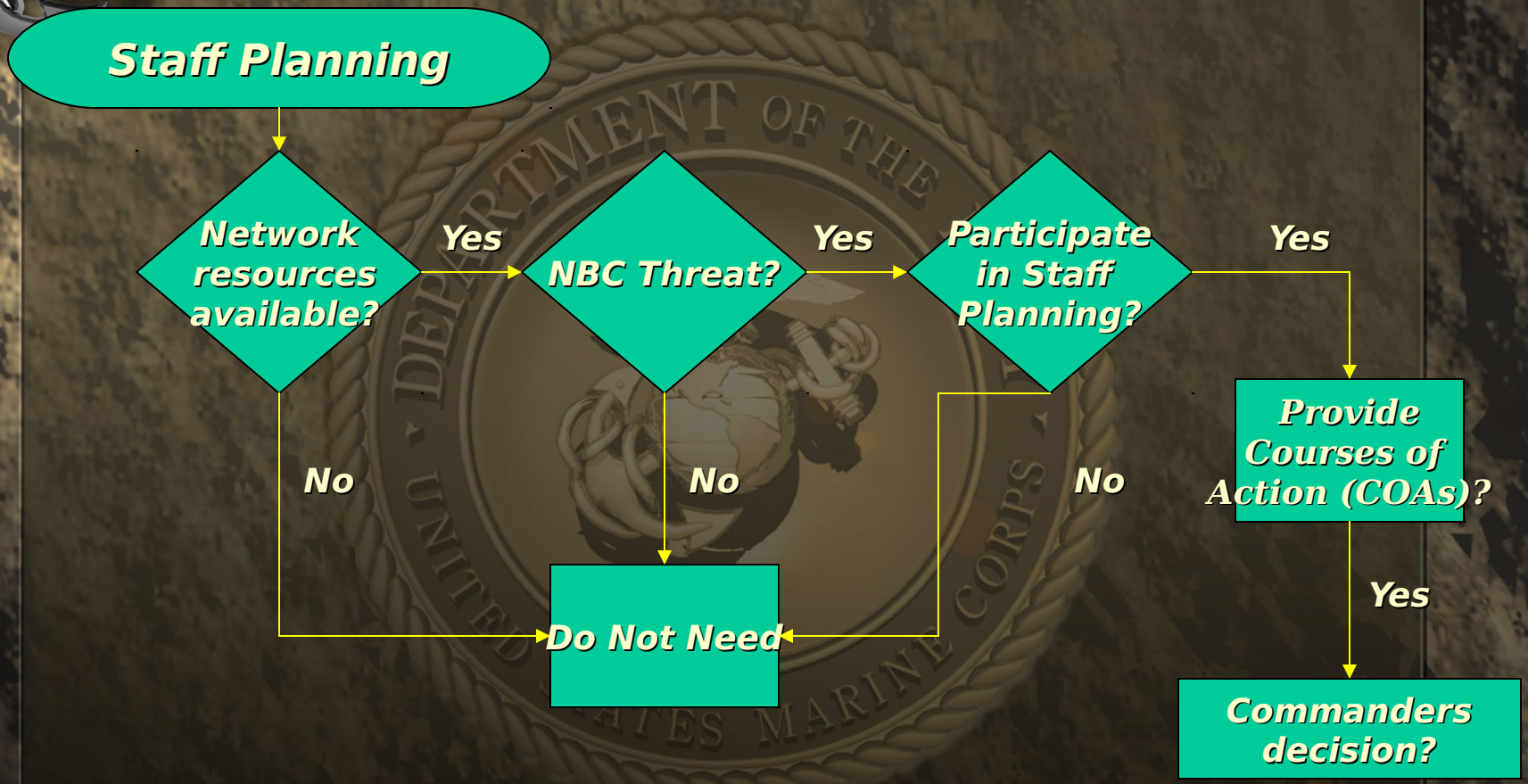
Current Capabilities Shortfall

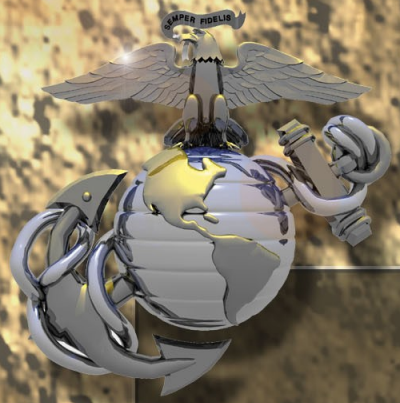
- Current system; NBC Planner
  - Not DoD accredited or C4ISR compliant
  - No Modeling and Simulation
  - Not robust enough to provide sensitivity analysis, resource estimations, and interoperate with current and evolving C4ISR structure.

MCCDC Recommendation

- Follow program, plan on JOEF acquisition for MARFORs and MEFs.
- Rationale:
  - Demanding IOS/IOW hardware requirement.
  - Robust COE architecture requirement.
  - Senior Operational Planners and Staff Action Officers
  - Strategic, Operational and Tactical mission environments for both deliberate and crisis-action planning.

JOEF Decision Tree





Questions?

Back Up Slides

ORD Requirements

- JOEF shall provide non-real time, deliberate planning tools to evaluate the risk associated with CBRN and TIM hazards through the utility of Joint Effects Model (JEM).
- Predict effects, impacts, and risks associated with CBRN and TIM on overall mission effectiveness and measures of effectiveness through force flow, intelligence, risk management and logistics data.

ORD Requirements (Cont)

- Perform sensitivity analysis
- Provide consumable Total Asset Visibility (TAV) and Reliability Availability Maintainability (RAM)
- Provide human effects, casualty, and resource estimations.
- COE level 7 compliant
- Interoperate with all current and evolving C4ISR systems.

ORD Requirements (Cont)

- **Efficacy**
  - **Provide the CBRN planner the ability to create multiple COAs for the Commander to base their decision.**

ORD Requirements (Cont)

- **Mission Reliability**
  - **One fault in a mission of 1,440 hours.**
- **Operational Availability**
  - **$\geq$ 97%**

ORD Requirements (Cont)

- Size
  - Software only with capability to update.
- Marine Corps Annex will request; “JOEF be fielded with appropriate computer hardware resources.”

Fielding Schedule

- IOC
  - Joint IOC is scheduled for FY06.
- FOC
  - Joint FOC is scheduled for FY09.

Program Affordability

- Total Life Cycle Cost < $79.12
- Life Cycle 10yrs (FY 04-14)
- RDT&E < $68.33
- O&S < $7.24
- Procurement < $3.56

JOEF COE Strawman

- If you want it, how would you use it?
  - What types of information/sources of information required?
  - What level of cmd – MARFOR/MEF?
  - C4ISR operating environment – Strategic, Operational, Tactical?
  - Level of planning
    - Deliberate, Crisis, Incident/Consequence Mgt?

Do You need it?